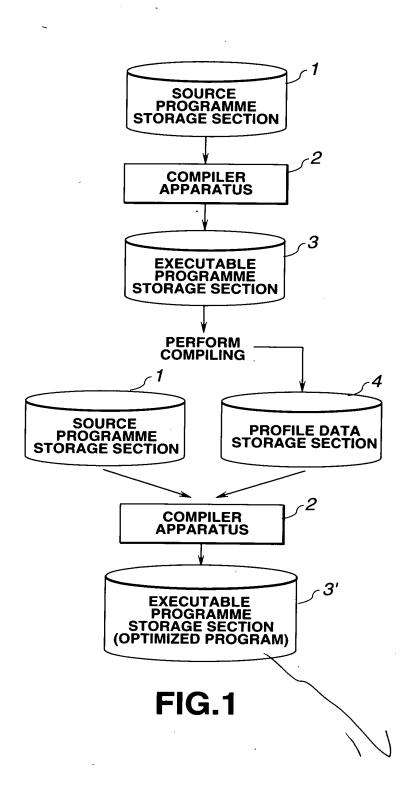


1.1 600



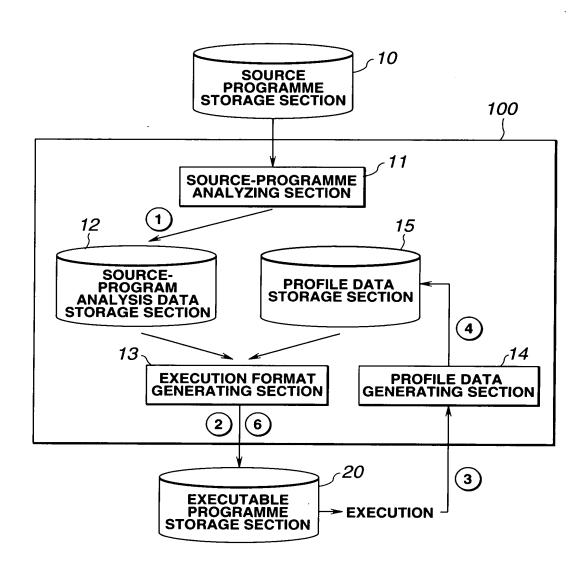


FIG.2



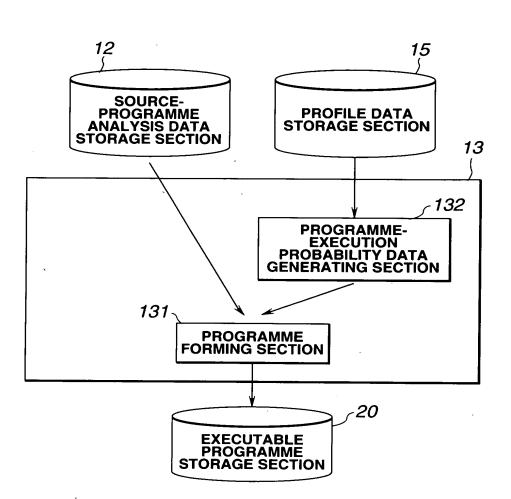


FIG.3



EXAMPLE OF A SOURCE PROGRAMME

if (a>b)

then c = a;

else c = b;

d = c c;

FIG.4

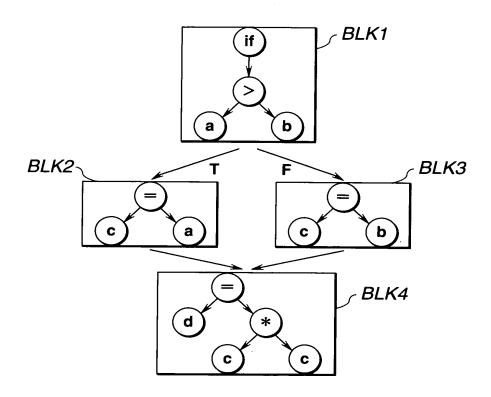


FIG.5



ASSEMBLY CODE

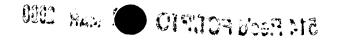
. text block 1	:		
block_2	ld ld cmp ble	r1, [a] r2, [b] r3, r1, r2 r3, block_3	; r1<-a ; r2<-b ; r3<-r1 cmp r2
	ld st jmp	r4, [a] r4, [c] block_4	; r4<-a ; c<-r4
block_3	ld st jmp	r5, [b] r5, [c] block_4	; r5<-b ; c<-r5
block_4	ld ld mul st	r6, [c] r7, [c] r8, r6, r7 r8, [d]	; r6<-c ; r7<-c ; r8<-r6*r7 ; d<-r8

FIG.6

PROFILE DATA

TIME	DETAILED DATA		
10050:	PC	block_1	
10000.	load address	a	
10051:	load address	b	
10052:	compare		
10053:	branch less or equal	block_3	
10054:	PC	block_3	
	load address	b	
10055:	store address	C	
10056:	jump	block_4	
10057:	PC	block_4	
	load address	C	
10058:	load address	C	
10059:	mul	•	
10080:	store address	d	

FIG.7



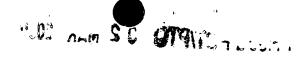
PROBABILITY DATA

LABEL NAME	EXECUTION/ NUMBER OF ACCESSES	
block_1:	100	
block ² :	10	
block_3 :	90	
block 4:	100	
-		
a load:	110	
a store:	0	
b load:	190	
b store:	0	
c load:	200	
c store:	100	
d load:	0	
d store:	100	

FIG.8

```
. text
block 1:
           ld
                     r1, [a]
                                         ; r1<-a
           ld
                     r2, [b]
                                         ; r2<-b
                    r5, r2
r3, r1, r2
           mv
                                         ; r5<-r2
           cmp
                                         ; r3<-r1 cmp r2
           ble
                    r3, block_3
block_2:
                    r4, [a]
r4, [c]
                                         ; r4<-a
           ld
           st
                                         ; c<-r4
           jmp
                    block_4
block 3:
                    r5, [c]
r8, r5, r5
r8, [d]
                                         ; c<-r5
; r8<-r5*r5
           st
           mul
           st
                                         ; d<-r8
           jmp
                    block_5
block_4:
                    r6, [c]
r7, [c]
r8, r6, r7
           ld
                                         ; r6<-c
                                         ; r7<-c
           ld
                                         ; r8<-r6*r7
           mul
           st
                    r8, [d]
                                         ; d<-r8
```

FIG.9



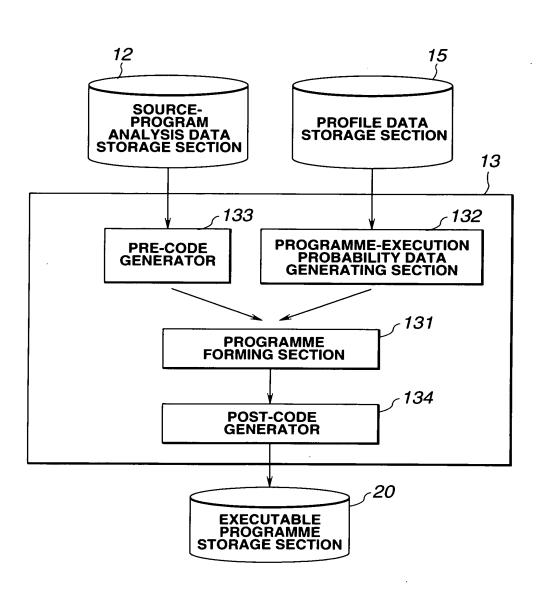


FIG.10

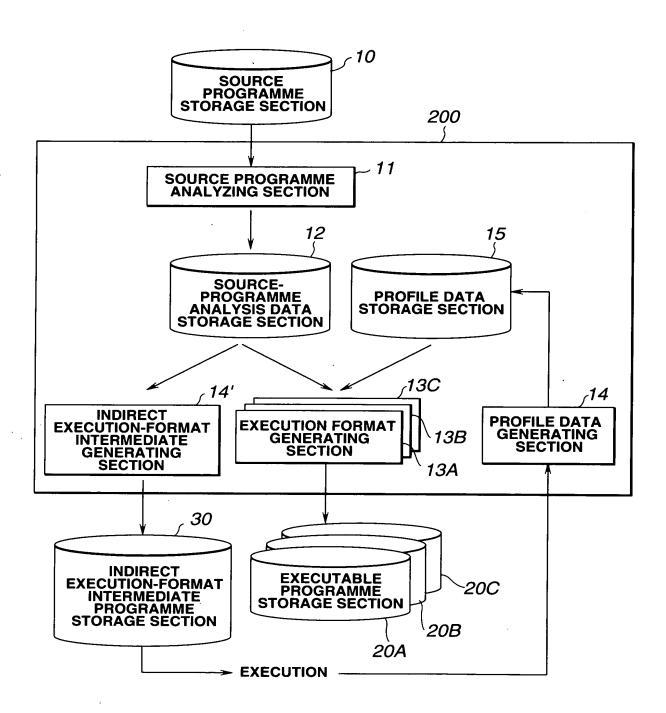


FIG.11

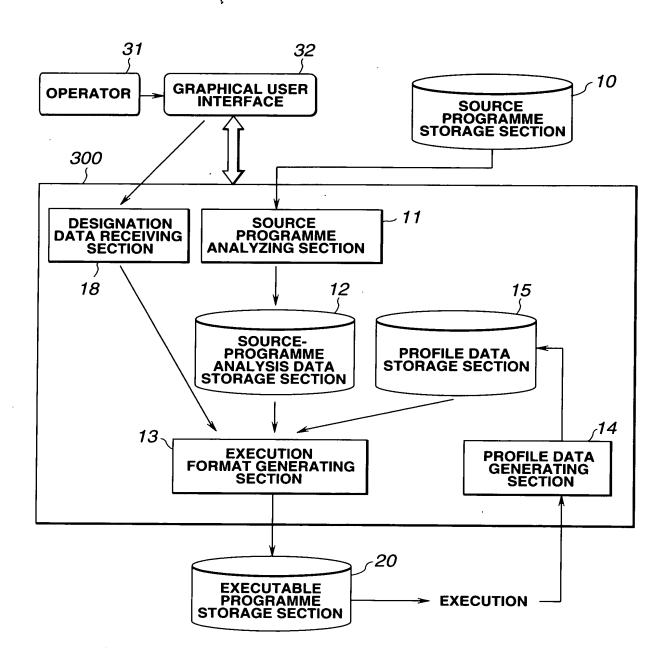


FIG.12

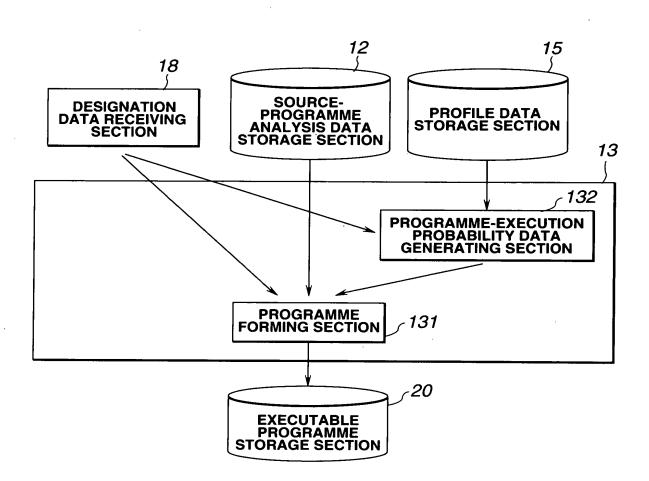


FIG.13

Production of the Contraction of

FIG.14

T = 90% F = 10%

. text					
block_1	:				
	ld	r1, [a]	; r1<-a		
	ld	r2, [b]	; r2<-b		
	mv	r4, r1	; r4<-r1		
	cmp	r3, r1, r2	; r3<-r1 cmp r2		
	ble	r3, block 3	,		
block_2	:	·, · · · · · <u>- · · </u> ·			
	ld	r4, [a]	; c<-r4		
	mul	r8, r4, r4	; r8<-r4 * r4		
	st	r8, [d]	; d<−r8		
	jmp	block 5	,		
block 3:					
2.00K_0	st	r5, [b]	E/ h		
	st	r5, [c]	; r5<-b ; c<-r5		
	jmp	block 4	, c<-r5		
		DIOCK_4			
block_4	:				
	ld	r6, [c]	; r6<-c		
	ld	r7, [c]	; r7<-c		
	mul	r8, r6, r7	; r8<-r6*r7		
	st	r8, [d]	; d<-r8		

FIG.15

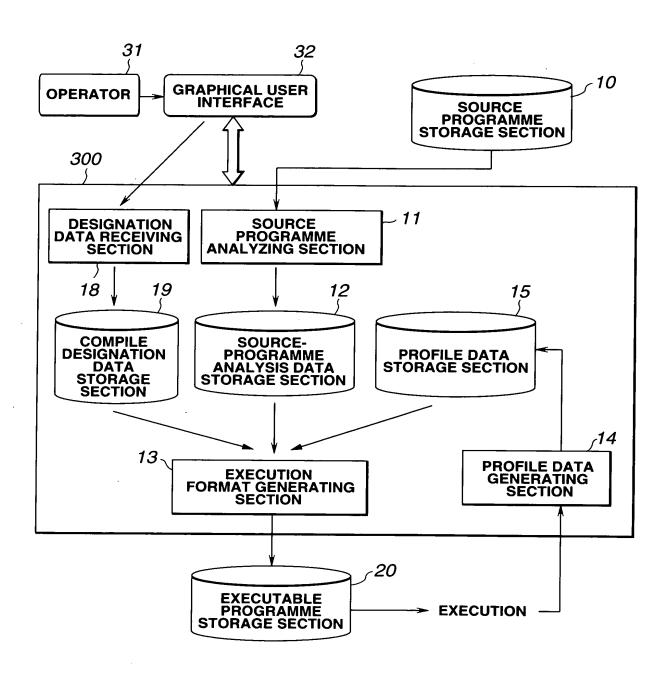


FIG.16